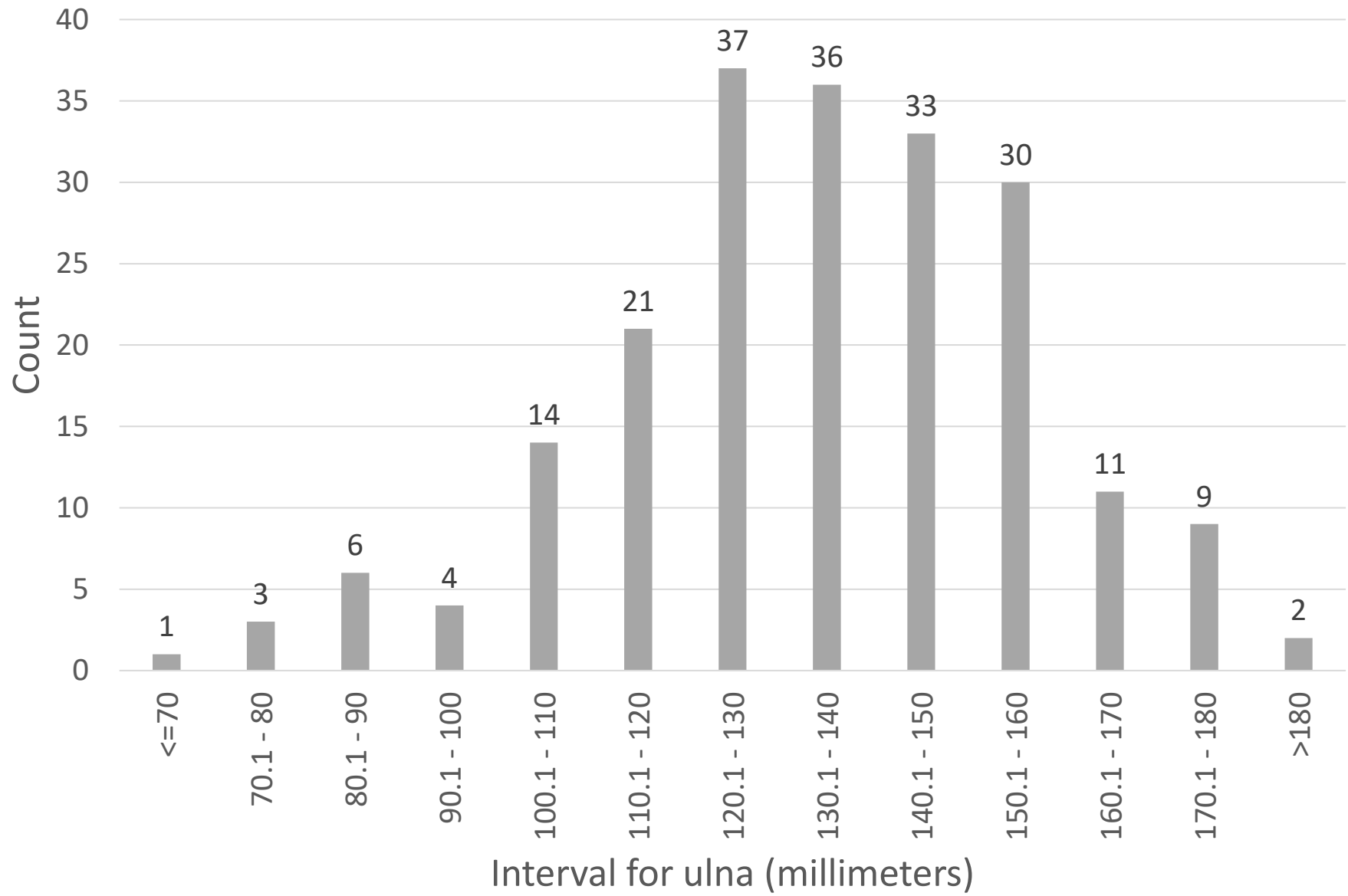
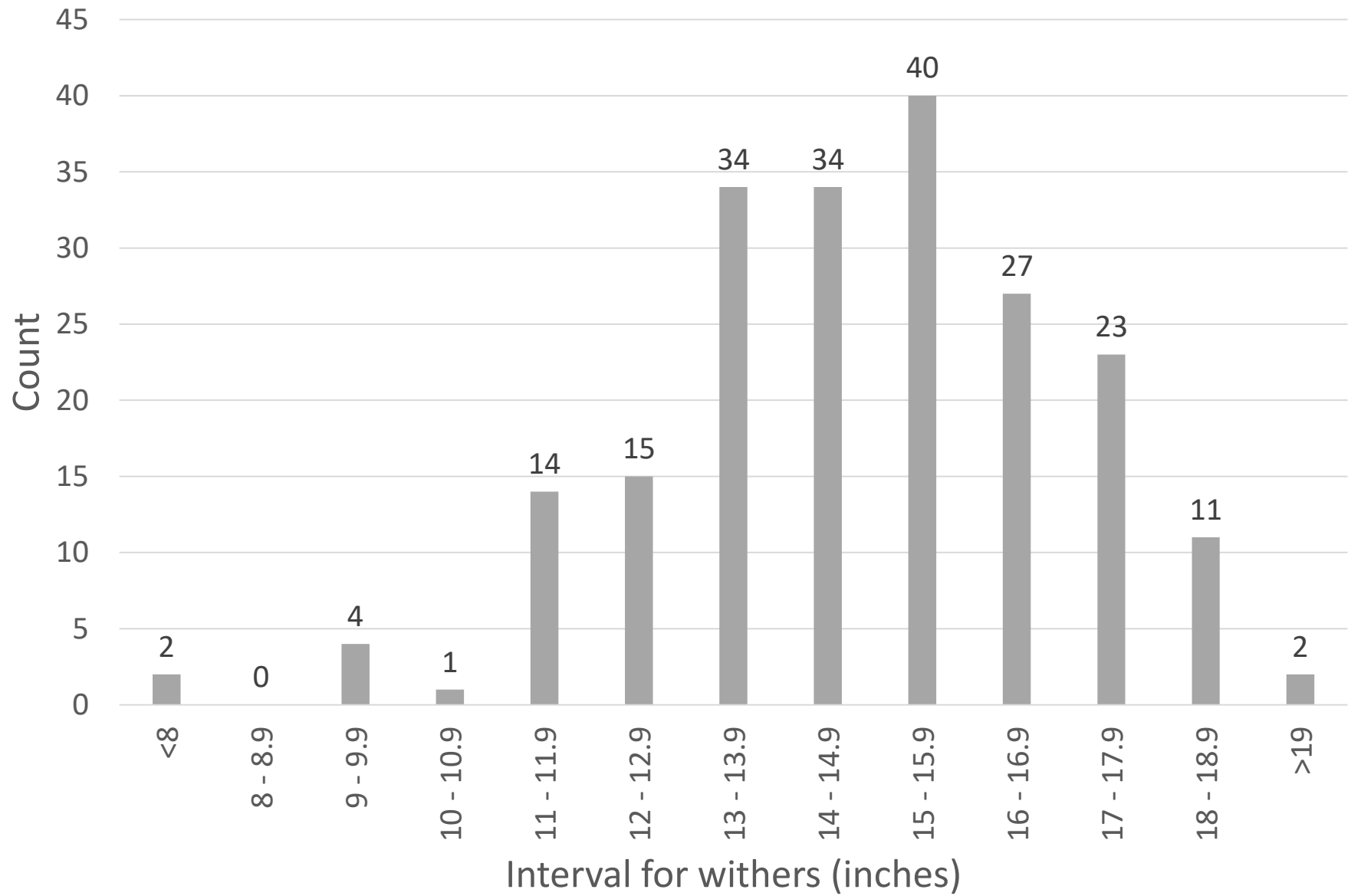


Distribution of Ulna Measurements

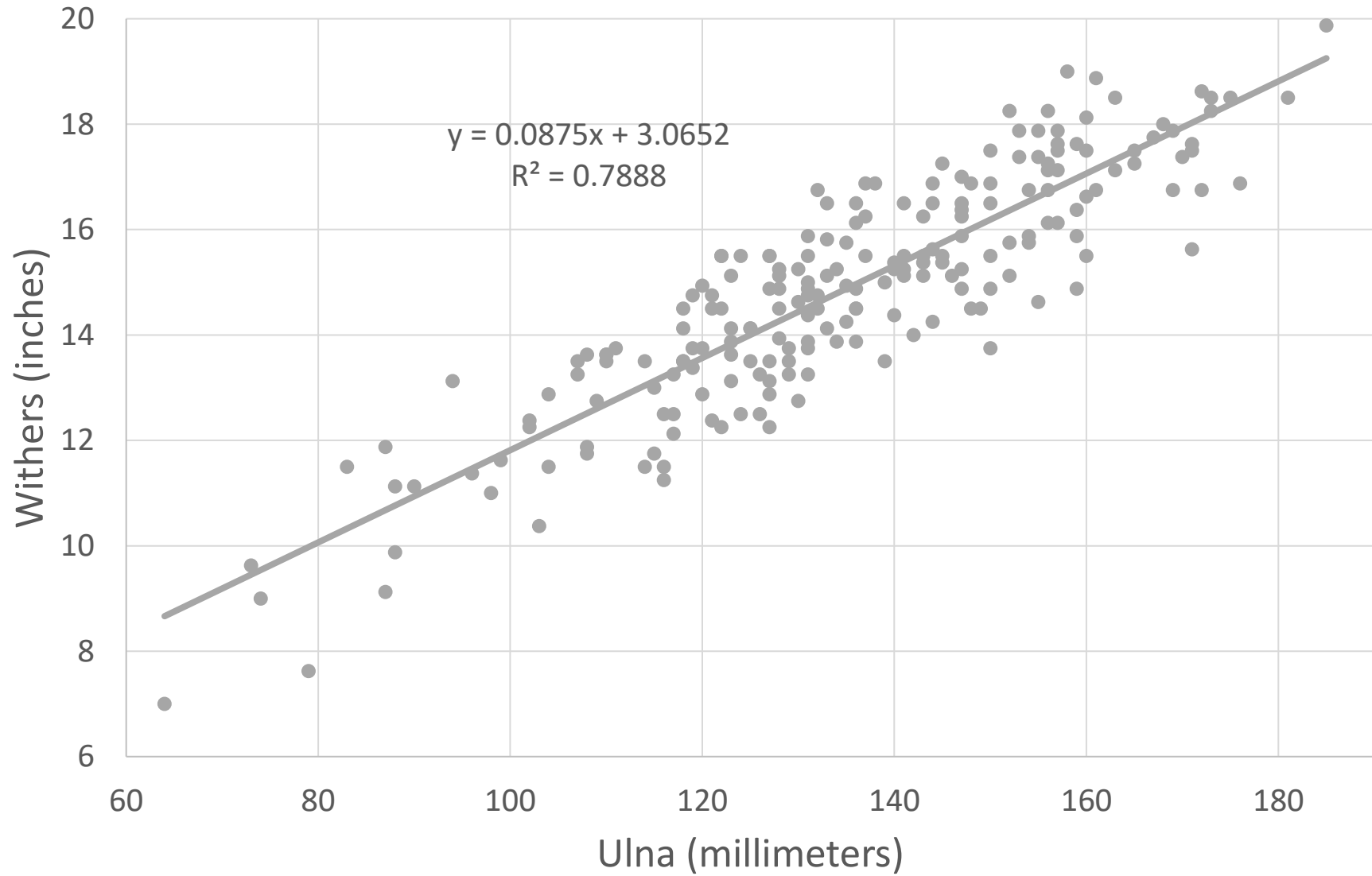


Distribution of Withers Measurements



Ulna vs. Withers: All Data

Scatter Plot with Regression Line



10-mm intervals

Option 1 10-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	115	7
	125	8
	135	9
	145	10
	155	11
	165	12
	175	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	34.7%	1.4	3
Jump lower (<= 10" dogs)	25.0%	-1.1	-2
Unchanged (<= 10" dogs)	40.3%		
Jump higher (all dogs)	31.4%	1.4	3
Jump lower (all dogs)	29.0%	-1.2	-2
Unchanged (all dogs)	39.6%		

Option 2 10-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	120	7
	130	8
	140	9
	150	10
	160	11
	170	12
	180	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	20.1%	1.2	3
Jump lower (<= 10" dogs)	34.7%	-1.3	-2
Unchanged (<= 10" dogs)	45.1%		
Jump higher (all dogs)	17.4%	1.2	3
Jump lower (all dogs)	43.0%	-1.3	-3
Unchanged (all dogs)	39.6%		

Option 3 10-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	125	7
	135	8
	145	9
	155	10
	165	11
	175	12
	185	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	11.1%	1.2	2
Jump lower (<= 10" dogs)	49.3%	-1.4	-3
Unchanged (<= 10" dogs)	39.6%		
Jump higher (all dogs)	9.2%	1.2	2
Jump lower (all dogs)	57.5%	-1.5	-3

11-mm intervals

Option 1 11-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	115	7
	126	8
	137	9
	148	10
	159	11
	170	12
	181	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	29.9%	1.3	3
Jump lower (<= 10" dogs)	25.7%	-1.1	-2
Unchanged (<= 10" dogs)	44.4%		
Jump higher (all dogs)	24.2%	1.3	3
Jump lower (all dogs)	35.3%	-1.2	-3
Unchanged (all dogs)	40.6%		

Option 2 11-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	120	7
	131	8
	142	9
	153	10
	164	11
	175	12
	186	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	16.0%	1.2	2
Jump lower (<= 10" dogs)	38.9%	-1.3	-2
Unchanged (<= 10" dogs)	45.1%		
Jump higher (all dogs)	12.6%	1.2	2
Jump lower (all dogs)	48.8%	-1.4	-3
Unchanged (all dogs)	38.6%		

Option 3 11-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	125	7
	136	8
	147	9
	158	10
	169	11
	180	12
	191	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	9.7%	1.2	2
Jump lower (<= 10" dogs)	53.5%	-1.4	-3
Unchanged (<= 10" dogs)	36.8%		
Jump higher (all dogs)	7.7%	1.2	2
Jump lower (all dogs)	62.8%	-1.6	-4

12-mm intervals

Option 1 12-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	115	7
	127	8
	139	9
	151	10
	163	11
	175	12
	187	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	27.8%	1.1	2
Jump lower (<= 10" dogs)	27.1%	-1.2	-2
Unchanged (<= 10" dogs)	45.1%		
Jump higher (all dogs)	20.8%	1.1	2
Jump lower (all dogs)	40.6%	-1.3	-3
Unchanged (all dogs)	38.6%		

Option 2 12-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	120	7
	132	8
	144	9
	156	10
	168	11
	180	12
	192	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	13.9%	1.2	2
Jump lower (<= 10" dogs)	43.1%	-1.3	-2
Unchanged (<= 10" dogs)	43.1%		
Jump higher (all dogs)	11.1%	1.1	2
Jump lower (all dogs)	54.6%	-1.4	-3
Unchanged (all dogs)	34.3%		

Option 3 12-mm interval	Jump height	
	Ulna (mm)	(in)
Up to	125	7
	137	8
	149	9
	161	10
	173	11
	185	12
	197	13
	> Max	14

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	6.9%	1.1	2
Jump lower (<= 10" dogs)	53.5%	-1.4	-3
Unchanged (<= 10" dogs)	39.6%		
Jump higher (all dogs)	5.3%	1.1	2
Jump lower (all dogs)	66.2%	-1.6	-4

Intervals and starting points for other organizations

U-FLI	Jump height	
	Ulna (mm)	(in)
Up to	127.0	7
	139.7	8
	152.4	9
	165.1	10
	177.8	11
	190.5	12
	203.2	13
	> Max	14

	Percent of subsample	Mean change (in)
Jump higher (<= 10" dogs)	3.5%	1.0
Jump lower (<= 10" dogs)	58.3%	-1.4
Unchanged (<= 10" dogs)	38.2%	
Jump higher (all dogs)	2.4%	1.0
Jump lower (all dogs)	69.6%	-1.7
Unchanged (all dogs)	28.0%	

FCI	Jump height	
	Ulna (mm)	(in)
Up to	100.0	7
	112.5	8
	125.0	9
	137.5	10
	150.0	11
	162.5	12
	175.0	13
	> Max	14

	Percent of subsample	Mean change (in)
Jump higher (<= 10" dogs)	66.7%	1.6
Jump lower (<= 10" dogs)	3.5%	-1.0
Unchanged (<= 10" dogs)	29.9%	
Jump higher (all dogs)	55.1%	1.5
Jump lower (all dogs)	10.1%	-1.0
Unchanged (all dogs)	34.8%	

Unchanged (all dogs) 33.3%

Option 4 10-mm interval		Jump height	
	Ulna (mm)	(in)	
Up to	130	7	
	140	8	
	150	9	
	160	10	
	170	11	
	180	12	
	190	13	
	> Max	14	
	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	2.8%	1.3	2
Jump lower (<= 10" dogs)	59.7%	-1.5	-3
Unchanged (<= 10" dogs)	37.5%		
Jump higher (all dogs)	2.9%	1.2	2
Jump lower (all dogs)	68.6%	-1.7	-4
Unchanged (all dogs)	28.5%		

Unchanged (all dogs) 29.5%

MODIFIED Option 4 11-mm interval		Jump height	
	Ulna (mm)	(in)	
Up to	122	7	
	133	8	
	144	9	
	155	10	
	166	11	
	177	12	
	188	13	
	> Max	14	
	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	12.5%	1.2	2
Jump lower (<= 10" dogs)	43.8%	-1.4	-3
Unchanged (<= 10" dogs)	43.8%		
Jump higher (all dogs)	10.1%	1.1	2
Jump lower (all dogs)	53.6%	-1.5	-3
Unchanged (all dogs)	36.2%		

Unchanged (all dogs) 28.5%

Option 4 12-mm interval		Jump height	
	Ulna (mm)	(in)	
Up to	121	7	
	133	8	
	145	9	
	157	10	
	169	11	
	181	12	
	193	13	
	> Max	14	
	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	13.2%	1.2	2
Jump lower (<= 10" dogs)	45.1%	-1.3	-2
Unchanged (<= 10" dogs)	41.7%		
Jump higher (all dogs)	10.1%	1.1	2
Jump lower (all dogs)	57.5%	-1.5	-3
Unchanged (all dogs)	32.4%		

Option 5 10-mm interval		Jump height	
	Ulna (mm)	(in)	
Up to	135	7	
	145	8	
	155	9	
	165	10	
	175	11	
	185	12	
	195	13	
	> Max	14	

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	2.1%	1.0	1
Jump lower (<= 10" dogs)	66.7%	-1.7	-3
Unchanged (<= 10" dogs)	31.3%		
Jump higher (all dogs)	1.9%	1.0	1
Jump lower (all dogs)	75.4%	-1.9	-4
Unchanged (all dogs)	22.7%		

Option 5 11-mm interval		Jump height	
	Ulna (mm)	(in)	
Up to	135	7	
	146	8	
	157	9	
	168	10	
	179	11	
	190	12	
	201	13	
	> Max	14	

	Percent of subsample	Mean change (in)	Max change (in)
Jump higher (<= 10" dogs)	2.1%	1.0	1
Jump lower (<= 10" dogs)	66.7%	-1.7	-3
Unchanged (<= 10" dogs)	31.3%		
Jump higher (all dogs)	1.4%	1.0	1
Jump lower (all dogs)	75.4%	-2.0	-4
Unchanged (all dogs)	23.2%		

Any stand

	1-10	2-10	3-10	4-10	1-11	2'11	3-11	4-11	1-12	2-12	3-12
-3"	0	1	9	22	1	2	12	6	1	4	16
-2"	9	26	41	50	14	33	47	39	21	39	51
-1"	51	62	69	69	58	66	70	66	62	70	69
+0"	82	82	69	59	84	80	61	75	80	71	59
+1"	46	30	15	5	37	21	13	18	37	20	10
+2"	15	5	4	1	11	5	3	3	6	3	1
+3"	4	1	0	0	2	0	0	0	0	0	0
	207	207	207	206	207	207	206	207	207	207	206

	1-10	2-10	3-10	4-10	1-11	2'11	3-11	4-11	1-12	2-12	3-12
"Becc	12	20	26	42	17	23	37	26	20	31	44
% md	5.80%	9.66%	12.56%	20.29%	8.21%	11.11%	17.87%	12.56%	9.66%	14.98%	21.26%
Height	18	9	4	1	13	7	4	4	9	4	1
% height	8.70%	4.35%	1.93%	0.48%	6.28%	3.38%	1.93%	1.93%	4.35%	1.93%	0.48%

Percent dogs per height change											
	1-10	2-10	3-10	4-10	1-11	2'11	3-11	4-11	1-12	2-12	3-12
-3"	0.00%	0.48%	4.35%	10.63%	0.48%	0.97%	5.80%	2.90%	0.48%	1.93%	7.73%
-2"	4.35%	12.56%	19.81%	24.15%	6.76%	15.94%	22.71%	18.84%	10.14%	18.84%	24.64%
-1"	24.64%	29.95%	33.33%	33.33%	28.02%	31.88%	33.82%	31.88%	29.95%	33.82%	33.33%
+0"	39.61%	39.61%	33.33%	28.50%	40.58%	38.65%	29.47%	36.23%	38.65%	34.30%	28.50%
+1"	22.22%	14.49%	7.25%	2.42%	17.87%	10.14%	6.28%	8.70%	17.87%	9.66%	4.83%
+2"	7.25%	2.42%	1.93%	0.48%	5.31%	2.42%	1.45%	1.45%	2.90%	1.45%	0.48%
+3"	1.93%	0.48%	0.00%	0.00%	0.97%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Percent of all dogs decreasing by: +/-1" 86.47% 84.06% 73.91% 64.25% 86.47% 80.68% 69.57% 76.81% 86.47% 77.78% 66.67%
 -1" 85.00% 69.66% 57.98% 48.94% 79.45% 65.35% 54.26% 59.46% 73.81% 61.95% 50.74%

<Dogs within 1" of current jump height, of all dogs
 <Of dogs decreasing, not all dogs

